

Edible and Medicinal Fungi in Northeast China

DAI Yu-Cheng¹, Bau Tolgor²

(1 Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang 110016, China;
2 Jilin Agricultural University, Changchun 130118, China)

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Northeastern China is roughly between 39° and 54° N, 118° and 135° E, it includes Heilongjiang, Jilin, Liaoning provinces, and eastern Inner Mongolia Autonomous Region. Northeast China has the most important forest re-

sources in the country, and it is therefore the area is rich in species of edible and medicinal mushrooms. 100 edible and medicinal fungi are commonly found in the markets, and they are listed in the following:

1 . *Agaricus campestris* L .
2 . *Armillaria gallica* Marxm . & Romagn .
3 . *A. ostoyae* (Romagn .) Herink
4 . *A. sinapina* Bérubé & Dessur .
5 . *Auricularia auricula* (L . & Hook .) Underw .
6 . *A. polytricha* (Mont .) Sacc .
7 . *Boletus edulis* Bull .: Fr .
8 . *Bulgaria inguinans* (Pers .) Fr .
9 . *Calvatia gigantea* (Batsch) Lloyd
10 . *Cantharellus cibarius* Fr .
11 . *Cerrena unicolor* (Bull .: Fr .) Murrill
12 . *Chroogomphus rutilus* (Schaeff .: Fr .) O . K . Miller
13 . *Clitocybe nebularis* (Batsch .: Fr .) Kummer
14 . *C. odora* (Bull .) P . Kumm .
15 . *Clitopilus prunulus* (Scop .) P . Kumm .
16 . *Collybia dryophila* (Bull .) P . Kumm .
17 . *Coprinus comatus* (O . F . Müll .) Gray
18 . *Cordyceps militaris* (L .) Link
19 . *Cryptoporus volvatus* (Peck) Shear
20 . *Daedalea dickinsii* Yasuda
21 . *Daedaleopsis tricolor* (Bull .: Mérat) Bondartsev & Singer
22 . *Flammulina velutipes* (Curtis .: Fr .) Singer
23 . *Fomes fomentarius* (L .: Fr .) Fr .
24 . *Fomitiporia hartigii* (Allesch . & Schnabl) Fiasson
 & Niemel
25 . *Fomitopsis officinalis* (Vll .: Fr .) Bondartsev & Singer
26 . *F. pinicola* (Sw .: Fr .) P . Karst .
27 . *Ganoderma applanatum* (Pers .) Pat .
28 . *G. lucidum* (W . Curtis .: Fr .) P . Karst .
29 . *G. tsugae* Murrill

30 . *Geastrum triplex* Jungh .
31 . *Gloeophyllum sepiarium* (Wulfen: Fr .) P . Karst .
32 . *Gloeostereum incarnatum* S . Ito & S . Iami
33 . *Grifola frondosa* (Dicks .: Fr .) Gray
34 . *Gymnopilus spectabilis* (Fr .) Singer
35 . *Helvella crispa* (Scop .) Fr .
36 . *Hericium coralloides* (Scop .: Fr .) Pers .
37 . *H. erinaceus* (Bull: Fr .) Pers .
38 . *Hydnum repandum* L .: Fr .
39 . *Hygrophorus chrysodon* (Batsch) Fr .
40 . *H. lucorum* Kalchbr .
41 . *H. russula* (Fr .) Kauffman
42 . *Hypsizygus marmoreus* (Peck) H . E . Bigelow
43 . *Inonotus hispidus* (Bull .: Fr .) P . Karst .
44 . *I. obliquus* (Pers .: Fr .) Pilat
45 . *Irpex lacteus* (Fr .: Fr .) Fr .
46 . *Kuehnomycetes mutabilis* (Schaeff .: Fr .) Singer & Smith
47 . *Lactarius deliciosus* (L .) Gray
48 . *Laetiporus sulphureus* (Bull .: Fr .) Murrill
49 . *Leccinum aurantiacum* (Bull .) Gray
50 . *Lentinus edodes* (Berk .) Singer
51 . *L. lepideus* (Fr .: Fr .) Fr .
52 . *Lepista nuda* (Bull .) Cooke
53 . *Lycoperdon perlatum* Pers .: Pers .
54 . *L. pyriforme* Schaeff .: Pers .
55 . *Lyophyllum decastes* (Fr .) Singer
56 . *L. ulmarius* (Bull .: Fr .) Kühn
57 . *Macrolepiota procera* (Scop .) Singer
58 . *Morchella esculenta* (L .) Pers .
59 . *Panellus edulis* Y . C . Dai , G . F . Qin & Niemel

- 60 . *Paxillus involutus* (Batsch: Fr .) Fr .
- 61 . *Perenniporia robiniophila* (Murrill) Ryarden
- 62 . *Phaeolus schweinitzii* (Fr .: Fr .) Pat .
- 63 . *Phellinus baumii* Pilat
- 64 . *P. conchatus* (Pers .: Fr .) Quél .
- 65 . *P. gilvus* (Schwein .: Fr .) Pat .
- 66 . *P. ignarius* (L .: Fr .) Quél .
- 67 . *P. laevigatus* (P . Karst .) Bourdot & Galzin
- 68 . *P. laricis* (Jaczewski in Pilát) Pilát
- 69 . *P. lonicericola* Parmasto
- 70 . *P. lundellii* Niemel
- 71 . *P. pini* (Brot .: Fr .) A . Ames
- 72 . *P. tremulae* (Bondartsev) Bondartsev & Borisov
- 73 . *P. tuberculosus* (Baumg .) Niemel
- 74 . *P. yamanoi* (Imazeki) Parmasto
- 75 . *P. vaninii* Ljub .
- 76 . *Pholiota adiposa* (Batsch) P . Kumm
- 77 . *P. alnicola* (Fr .) Singer
- 78 . *P. flammans* (Batsch) P . Kumm .
- 79 . *Phylloporia ribis* (Schumach .: Fr .) Ryarden
- 80 . *Piptoporus betulinus* (Bull .: Fr .) P . Karst .
- 81 . *Pleurotus citrinopileatus* Singer
- 82 . *P. ostreatus* (Jacq .: Fr .) Quél .
- 83 . *P. pulmonarius* (Fr .) Quél .
- 84 . *Polyporus umbellatus* (Pers .) Fr .
- 85 . *Pycnoporus cinnabarinus* (Jacq .) Fr .
- 86 . *Rozites caperatus* (Pers .) P . Karst .
- 87 . *Schizophyllum commune* Fr .: Fr .
- 88 . *Sparassis latifolia* Y.C . Dai & Zheng Wang
- 89 . *Stereum hirsutum* (Wiiild .: Fr .) Gray
- 90 . *Stropharia rugosoannulata* Farl . ex Murrill
- 91 . *Suillus granulatus* (L .) Roussel
- 92 . *S. grevillei* (Klotzsch: Fr .) Singer *Suillus luteus* (L .: Fr .) Roussel
- 93 . *S. luteus* (L .: Fr .) Roussel
- 94 . *Trametes gibbosa* (Pers .: Fr .) Fr .
T. hirsuta (Wulfen: Fr .) Pilát
- 95 . *T. hirsuta* (Wulfen: Fr .) Pilát
- 96 . *T. versicolor* (L .: Fr .) Pilát
- 97 . *Tremella fuciformis* Berk .
- 98 . *Trichaptum pargamentum* (Fr .) G . Cunn .
- 99 . *Tricholoma matsutake* (S . Ito & S . Imai) Singer
- 100 . *T. mongolicum* S . Imai
- 101 . *T. terreum* (Schaeff .) Quél .

Among these species, 10 mushrooms are widely cultivated in China; 40 species are used as medicines only; 45 species are mainly edible mushrooms, about

18 species are mycorrhizal edible mushrooms with dominative woods in forest, but they have medicinal functions; 15 species are used as food only .